

ABSTRACT

A radial shaft seal has a sealing ring having a support housing and a shell of elastomer material surrounding at least partially the support housing. The sealing ring has a sealing lip with a sealing edge or sealing surface that rests seal-tightly against a rotary machine part. The sealing lip has a first conical surface at a side facing the medium to be sealed and a second conical surface at a side facing the surrounding atmosphere. The first and second conical surfaces adjoin the sealing lip. Between the machine part and the first conical surface a first contact surface angle is formed; between the rotary machine part and the second conical surface a second contact surface angle is formed. The first contact surface angle is adjusted to be between 0 and 30 degrees and the second contact surface angle is adjusted to be between 30 up to 70 degrees.